Abstract

A system for direct optical control of electronic power semiconductors includes an optical triggering circuit at a first location, wherein said optical triggering circuit generates an optical trigger signal, a power circuit located at a second location remote from the first location, wherein said power circuit includes a photoconductor that is responsive to the optical trigger signal generated by the optical triggering circuit, and an optical cable coupling the optical triggering circuit to the power circuit. In operation, the power circuit is directly driven by the transmission of the optical trigger signal from the optical triggering circuit to the power circuit via the optical cable.